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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,852	09/06/2005	Toshihisa Ohata	XA-10245 2674	
181 MILES & STO	7590 10/10/2007 OCKBRIDGE PC		EXAM	INER
1751 PINNAC			CHARLES, MARCUS	
SUITE 500 MCLEAN, VA	22102-3833		ART UNIT	PAPER NUMBER
,			3682	
			NOTIFICATION DATE	DELIVERY MODE
			10/10/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ipdocketing@milesstockbridge.com sstiles@milesstockbridge.com

		Application No.	Applicant(s)			
	Office Action Summary	10/520,852	OHATA ET AL.			
Office Acti		Examiner	Art Unit			
		Marcus Charles	3682			
	ATE of this communication app	ears on the cover sheet with the c				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailling date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to c	ommunication(s) filed on <u>06 Se</u>	eptember 2005.				
2a)☐ This action is FII	This action is FINAL . 2b)⊠ This action is non-final.					
<i>'</i> — · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accord	ance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims						
4) Claim(s) <u>1-5</u> is/a	re pending in the application.					
4a) Of the above	4a) Of the above claim(s) is/are withdrawn from consideration.					
/ <u> </u>	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-5</u> is/a						
7) Claim(s)	is/are objected to. are subject to restriction and/o	r election requirement				
o) Claim(s)	are subject to restriction and/o	r cicolon requirement.	•			
Application Papers	•					
	is objected to by the Examine					
•		: a)⊠ accepted or b)□ objected				
• • • • • • • • • • • • • • • • • • • •		drawing(s) be held in abeyance. Se				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
• .						
Priority under 35 U.S.C.			\			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
,	a) ⊠ All b) □ Some * c) □ None of:					
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) A) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
3) Notice of Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>9-22-2005 & 11-04-2005</u> . 6) Other:						

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DETAILED ACTION

This is the first action relating to serial application number 10/520,852 filed 09-06-2005. Claims 1-5 are currently pending.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The examiner has accepted the drawing filed with this application as formal drawing.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP (2001-200857) in view of Ishiguro (5,133,609). JP (2001-200857) discloses the claimed invention including the seal ring that seals both ends of an internal space between the inner circumferential surface of the outer ring (4) and the outer circumferential surface of the inner ring (3) and wherein each of the seal rings includes a plurality of projections (16/18/19/21) circumferentially on an inside surface at a portion near the inner circumference of the seal ring such that a tip edge of at least one of the pluralities protrusions (18) comes in sliding contact with the corresponding axial end surface of the

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inner ring. JP (2001-200857) does not disclose that the bearing is a double row ball bearing, and the axial width of the bearing does not exceed 45% an inner diameter of the inner ring and the width in the radial direction of an overlap section is at least 25% a diameter on one of the plurality of balls. Ishiguro discloses a double bearing with a seal at both ends of the inner and outer rings. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to modify the bearing of JP (2001-200857) so that it is a double row bearing in view of Ishiguro in order to increase load capacity. In addition, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of JP (2001-200857) to obtain the values as claimed, since it has been held that where the general conditions of a claim is disclosed in the prior art, discovering the optimum ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Regarding claim 2, additionally, it is apparent that a labyrinth seals are formed.

Citation

- The prior art made of record and not relied upon is considered pertinent to 5. applicant's disclosure. Note the prior art cited in attached PTO Form 892.
- Any inquiry concerning this communication or earlier communications from the 6. examiner should be directed to Marcus Charles whose telephone number is (571) 272-7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> **Primary Examiner** Art Unit 3682 September 28, 2006